Universidad Carlos III de Madrid

DENOMINACIÓN ASIGNATURA: MACHINE LEARNING		
POSTGRADO: MÁSTER UNIVERSITARIO EN INGENIERÍA DE LA INFORMACIÓN PARA LA SALUD Profesor/a: Vanessa Gómez Verdejo	ECTS:6	CUATRIMESTRE: 1

CRONOGRAMA DE LA ASIGNATURA (versión detallada)

SEMANA	SESIÓN	DESCRIPCIÓN DEL CONTENIDO DE LA SESIÓN (En su caso, incluir las recuperaciones, tutorías, entrega de trabajos, etc)	GRUPO (marcar X)		Indicar espacio Necesario distinto aula (aula informática, audiovisual, etc..)	TRABAJO DEL ALUMNO DURANTE LA SEMANA		
			1	2		DESCRIPCIÓN	HORAS PRESENCIALES	HORAS TRABAJO Semana Máximo 7 H
1	1	Course presentation Introduction to Machine Learning			Computer room	Readings to be selected	1,5	3,5
1	2	Ensemble methods			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
2	3	Ensemble methods			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
2	4	Ensemble methods			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
3	5	Support Vector Machines			Computer room	Work with notebooks / Readings to be selected	1,5	3,5

3	6	Support Vector Machines			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
4	7	Support Vector Machines			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
4	8	Support Vector Machines			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
5	9	HW - SMV computational cost			Computer room	Work with notebooks	1,5	3,5
5	10	HW - SMV dual kernel			Computer room	Work with notebooks	1,5	3,5
6	11	Gaussian Processes			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
6	12	Gaussian Processes			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
7	13	Test 1			Class-room	Test preparation	1,5	3,5

7	14	HW- GP implementation			Computer room	Work with notebooks	1,5	3,5
8	15	Gaussian Processes			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
8	16	HW- GPy			Computer room	Work with notebooks	1,5	3,5
9	17	PCA			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
9	18	Bayesian PCA			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
10	19	Text preprocessing			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
10	20	Dimensionality reduction: embeddings			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
11	21	HW- NLP			Computer room	Work with notebooks	1,5	3,5

11	22	Test 2			Class-room	Test preparation	1,5	3,5
12	23	Unsupervised learning I			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
12	24	Unsupervised learning II			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
13	25	HW- novelty detection			Computer room	Work with notebooks	1,5	3,5
13	26	Dimensionality reduction I			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
14	27	Dimensionality reduction II			Computer room	Work with notebooks / Readings to be selected	1,5	3,5
14	28	Test 3			Class-room	Test preparation	1,5	3,5
15	29	Kaggle deadline and Poster session			Computer room	Poster preparation	4	6
TOTAL HORAS							46	84